| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|----------|---------|--|--------------------|---------------------|---------|------------------|
| L1 | 9 | (HfO2 or "HfO.sub.2" or "Hf O.sub. 2" or "hafnium oxide" or "hafnium-oxide" or "Hf oxide" or "Hf-oxide" or "hafnium O" or "hafnium-O" or "hafnium O2" or "hafnium-O2" or "hafnium O.sub.2" or "hafnium-O.sub.2") with crystalliz\$ with capacitor | US-PGPUB; USPAT | OR | ON | 2005/01/21 10:12 |
| L2 | 4036011 | @ad<"20030509" | US-PGPUB; USPAT | OR | ON | 2005/01/21 10:15 |
| L3 | 3 | L1 and L2 | US-PGPUB; USPAT | OR | ON | 2005/01/21 10:15 |
| L4 | 70 | (HfO2 or "HfO.sub.2" or "Hf O.sub. 2" or "hafnium oxide" or "hafnium-oxide" or "Hf oxide" or "Hf-oxide" or "hafnium O" or "hafnium-O" or "hafnium O2" or "hafnium-O2" or "hafnium O.sub.2" or "hafnium-O.sub.2") with crystalliz\$ | US-PGPUB; USPAT | OR | ON | 2005/01/21 10:15 |
| L5 | 288827 | capacitor | US-PGPUB; USPAT | OR | ON | 2005/01/21 10:15 |
| L6 | 39 | L4 and L5 | US-PGPUB; USPAT | OR | ON | 2005/01/21 10:15 |
| L7 | 25 | L2 and L6 | US-PGPUB; USPAT | OR | ON | 2005/01/21 10:15 |
| L8 | 18 | Aarik | US-PGPUB; USPAT | OR | ON | 2005/01/21 10:23 |
| L9 | 3 | L7 and L8 | US-PGPUB; USPAT | OR | ON | 2005/01/21 10:15 |
| L10 | 233847 | (HfO2 or "HfO.sub.2" or "Hf O.sub. 2" or "hafnium oxide" or "hafnium-oxide" or "Hf oxide" or "Hf-oxide" or "hafnium O" or "hafnium-O" or "hafnium O2" or "hafnium-O2" or "hafnium O.sub.2" or "hafnium-O.sub.2") with crystalliz\$ dielectric | US-PGPUB; USPAT | OR | ON | 2005/01/21 10:16 |
| L11 | 233847 | (HfO2 or "HfO.sub.2" or "Hf O.sub. 2" or "hafnium oxide" or "hafnium-oxide" or "Hf oxide" or "Hf-oxide" or "hafnium O" or "hafnium-O" or "hafnium O2" or "hafnium-O2" or "hafnium-O.sub.2" or "hafnium-O.sub.2") with crystalliz\$ dielectric | US-PGPUB; USPAT | OR | ON | 2005/01/21 10:16 |
| L12 | 215350 | L2 and L10 | US-PGPUB; USPAT | OR | ON | 2005/01/21 10:16 |

| L13 | 19 | (HfO2 or "HfO.sub.2" or "Hf O.sub. 2" or "hafnium oxide" or "hafnium-oxide" or "Hf oxide" or "Hf-oxide" or "hafnium O" or "hafnium-O" or "hafnium O2" or "hafnium-O2" or "hafnium O.sub.2" or "hafnium-O.sub.2") with crystalliz\$ with dielectric | US-PGPUB; USPAT | OR | ON | 2005/01/21 10:38 |
|-----|----|--|--------------------|----|----|------------------|
| L14 | 9 | L2 and L13 | US-PGPUB; USPAT | OR | ON | 2005/01/21 10:16 |
| L15 | 4 | (HfO2 or "HfO.sub.2" or "Hf O.sub. 2" or "hafnium oxide" or "hafnium-oxide" or "Hf oxide" or "Hf-oxide" or "hafnium O" or "hafnium-O" or "hafnium O2" or "hafnium-O2" or "hafnium O.sub.2" or "hafnium-O.sub.2") with crystalliz\$ with ((dielectric or insulat\$) with capacitor) | US-PGPUB; USPAT | OR | ON | 2005/01/21 10:40 |
| L16 | | 2 and 15 | US-PGPUB; USPAT | OR | ON | 2005/01/21 10:39 |

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|----------|---------|---|--------------------|---------------------|---------|-------------------|
| L1 | 6755 | HfO2 or HfO or "hafnium oxide" or | US-PGPUB; | OR | ON | 2005/01/21 12:10 |
| - | | "hafnium-oxide" or "hafnium dioxide" or "hafnium-dioxide" or "HfO.sub.2" or "Hf O.sub.2" or | USPAT | | | |
| · | | "Hf-O.sub.2" or "hafnium O" or "hafnium-O" or "Hf oxide" or "Hf-oxide" or "Hf dioxide" or | | | | |
| | | "Hf-dioxide" | | | | |
| L2 | 6 | (HfO2 or HfO or "hafnium oxide" or "hafnium-oxide" or "hafnium dioxide" or "hafnium-dioxide" or "HfO.sub.2" or "Hf O.sub.2" or "Hf-O.sub.2" or "hafnium O" or "hafnium-O" or "Hf oxide" or "Hf-oxide" or "Hf-dioxide" or "Hf-dioxide") with ("a-" or amorphous) with (crystalliz\$ or heat or heats or heated or heating or anneal or anneals or annealed or annealing) with ((insulat\$ or dielectric) with capacitor) | US-PGPUB; USPAT | OR | ON | 2005/01/21 13:10 |
| L3 | 4036065 | @ad<"20030509" | US-PGPUB; USPAT | OR | ON | 2005/01/21-12:12 |
| L4 | 1 | 2 and 3 | US-PGPUB; USPAT | OR | ON | 2005/01/21 12:12 |
| L5 | 9 | (HfO2 or HfO or "hafnium oxide" or "hafnium-oxide" or "hafnium dioxide" or "hafnium-dioxide" or "HfO.sub.2" or "HfO.sub.2" or "hafnium O" or "hafnium-O" or "Hf-oxide" or "Hf-oxide" or "Hf-dioxide" or "Hf-dioxide") with ("a-" or amorphous) with (crystalliz\$ or heat or heats or heated or heating or anneal or anneals or annealed or annealing) same ((insulat\$ or dielectric) with capacitor) | US-PGPUB; USPAT | OR | ON | -2005/01/21 13:07 |
| L6 | 3 | 3 and 5 | US-PGPUB; USPAT | OR | ON | 2005/01/21 13:08 |

| L7 | 21 | (HfO2 or HfO or "hafnium oxide" or "hafnium-oxide" or "hafnium dioxide" or "hafnium-dioxide" or "HfO.sub.2" or "Hf O.sub.2" or "Hf-O.sub.2" or "hafnium O" or "hafnium-O" or "Hf oxide" or "Hf-oxide" or "Hf-dioxide" or "Hf-dioxide") with ("a-" or amorphous) with (crystalliz\$ or heat or heats or heated or heating or anneal or anneals or annealed or dielectric) with capacitor) | US-PGPUB; USPAT | OR | ON | 2005/01/21 13:10 |
|-----|-----------|--|--------------------|-----|------|------------------|
| L8 | 11 | 3 and 7 | US-PGPUB; USPAT | OR | ON | 2005/01/21 13:33 |
| L9 | 257816 | halogen or organometallic | US-PGPUB; USPAT | OR | ON | 2005/01/21 13:33 |
| L10 | .4 | 8 and 9 | US-PGPUB; USPAT | _OR | ON . | 2005/01/21 13:33 |
| L11 | 1589713 | N or nitrogen | US-PGPUB; USPAT | OR | ON | 2005/01/21 14:13 |
| L12 | - 4 | 10 and 11 | US-PGPUB; USPAT | OR | ON | 2005/01/21 14:05 |
| L13 | 382767 | NH3 or ammonia or N2O | US-PGPUB; USPAT | OR | ON | 2005/01/21 14:06 |
| L14 | 0 | 12 and 13 | US-PGPUB; USPAT | OR | ON | 2005/01/21 14:12 |
| L15 | 1 | ("5641702").PN. | US-PGPUB; USPAT | OR | OFF | 2005/01/21 14:12 |
| L16 | 1644667 | 11 or 13 | US-PGPUB; USPAT | OR | ON | 2005/01/21 14:13 |
| L17 | 0 | 15 and 16 | US-PGPUB; USPAT | OR | ON | 2005/01/21 14:23 |



